



Dividing with decimals



1 Calculate these decimal and whole number divisions:

a $3.6 \div 4$

)

$\therefore 3.6 \div 4 =$

b $17.5 \div 5$

)

$\therefore 17.5 \div 5 =$

c $16.2 \div 9$

)

$\therefore 16.2 \div 9 =$

d $0.63 \div 3$

)

$\therefore 0.63 \div 3 =$

e $0.489 \div 5$

)

$\therefore 0.489 \div 5 =$

f $10.976 \div 7$

)

$\therefore 10.976 \div 7 =$

2 Calculate these decimal divisions, showing all your working:

a $5.2 \div 0.4$

)

$\therefore 5.2 \div 0.4 =$

b $9.6 \div 0.6$

)

$\therefore 9.6 \div 0.6 =$

c $0.56 \div 0.8$

)

$\therefore 0.56 \div 0.8 =$

d $1.58 \div 0.4$

)

$\therefore 1.58 \div 0.4$
 $=$

e $0.8125 \div 0.05$

)

$\therefore 0.8125 \div 0.05$
 $=$

f $5.3682 \div 0.006$

)

$\therefore 5.3682 \div 0.006$
 $=$

H. Conversions of measurements

Length: $1 \text{ km} = 1000 \text{ m} = 100\,000 \text{ cm} = 1\,000\,000 \text{ mm}$
 $1 \text{ m} = 100 \text{ cm} = 1\,000 \text{ mm}$
 $1 \text{ cm} = 10 \text{ mm}$

Area: $1 \text{ km}^2 = 1 \text{ km} \times 1 \text{ km} = 1000 \text{ m} \times 1000 \text{ m} = 1\,000\,000 \text{ m}^2$
 $1 \text{ km}^2 = 1 \text{ km} \times 1 \text{ km} = 100\,000 \text{ cm} \times 100\,000 \text{ cm} = 10\,000\,000\,000 \text{ cm}^2$
 $1 \text{ ha} = 100 \text{ m} \times 100 \text{ m} = 10\,000 \text{ m}^2$
 $1 \text{ m}^2 = 100 \text{ cm} \times 100 \text{ cm} = 10\,000 \text{ cm}^2$
 $1 \text{ m}^2 = 1000 \text{ mm} \times 1000 \text{ mm} = 1\,000\,000 \text{ mm}^2$

Convert the following:

a. 45km to cm _____

b. 78000cm to m _____

c. 6543cm to km _____

d. 9.12 m^2 to cm^2 _____

e. $246\,000 \text{ cm}^2$ to m^2 _____

G. Scale diagram

1. Find the actual length if the scale length is 6.7cm and the scale is 1:300000

2. Find the scale length if the actual length is 90m and the scale is 1:2500

3. Given the scale of a map is 1: 2000. Find the actual distance of a path if it is measured 5.9cm on the map in km.